

FIG. 1A
PRIOR ART

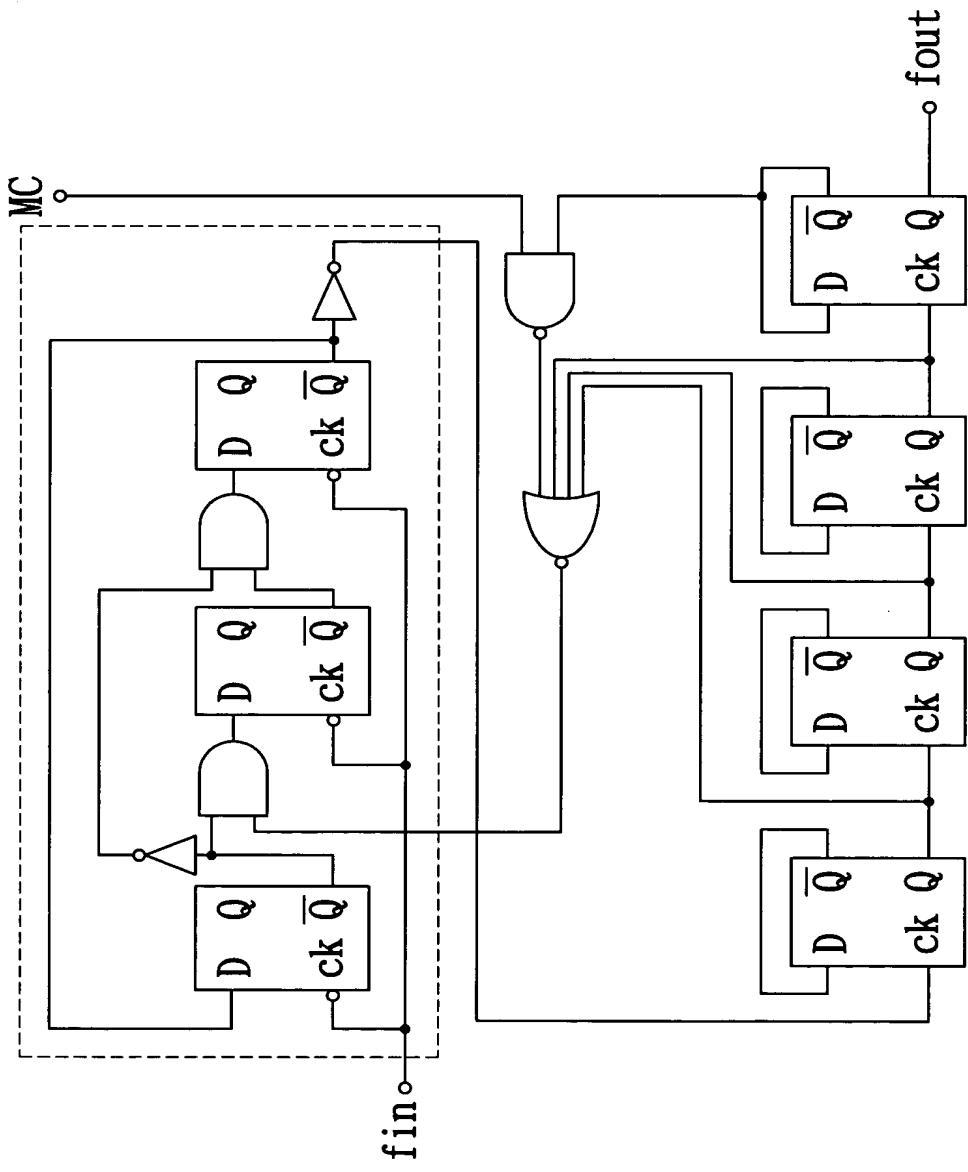


FIG. 1B
PRIOR ART

MC	f_{out}
0	$f_{in}/64$
1	$f_{in}/65$

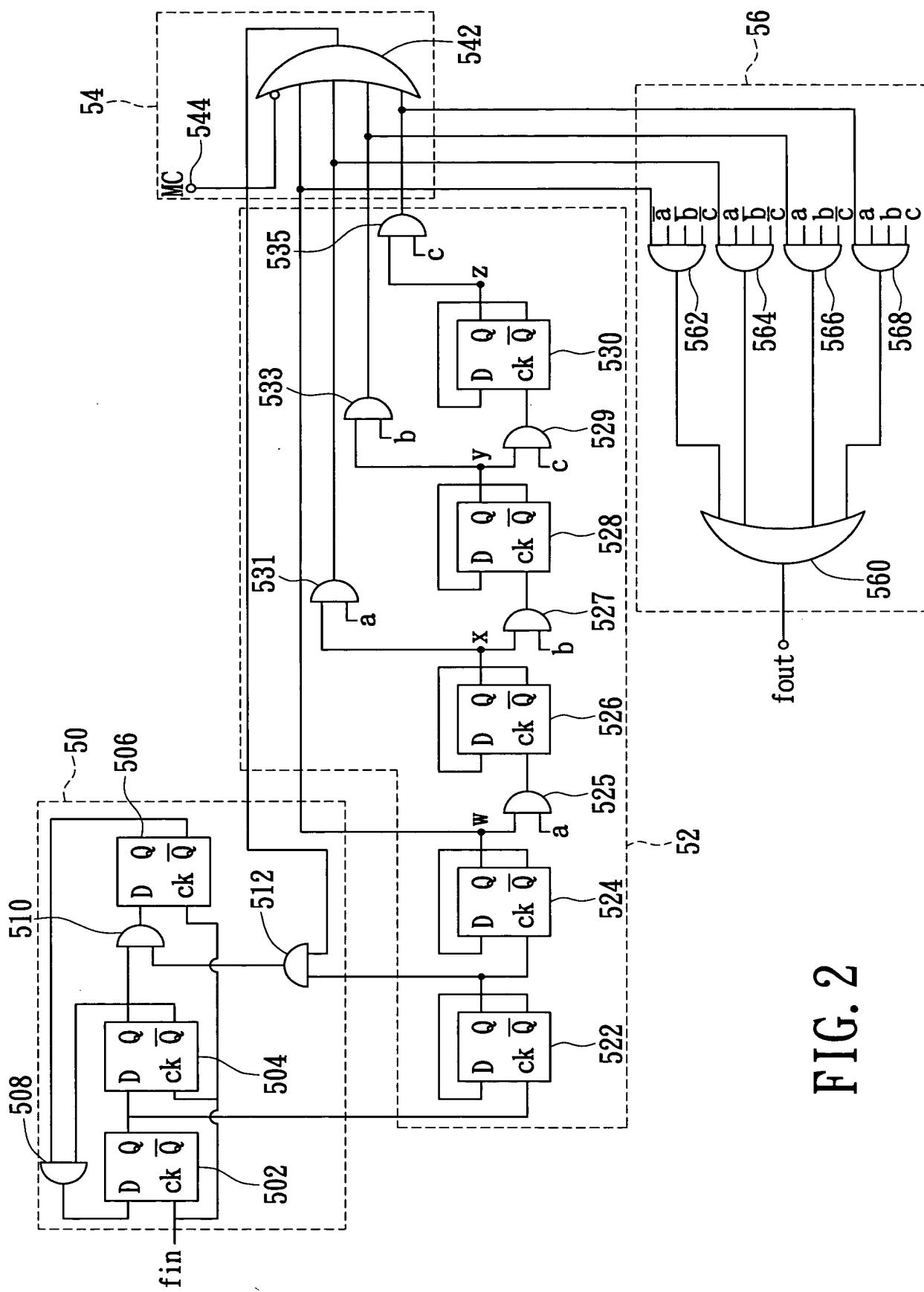


FIG. 2

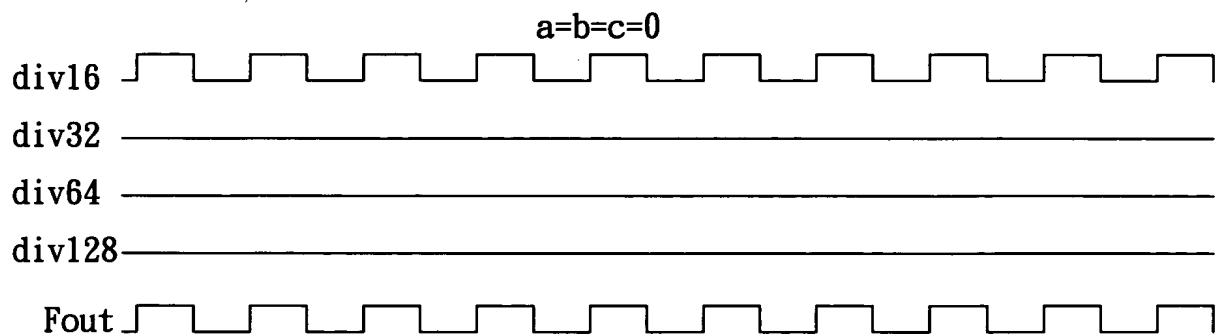


FIG. 3A

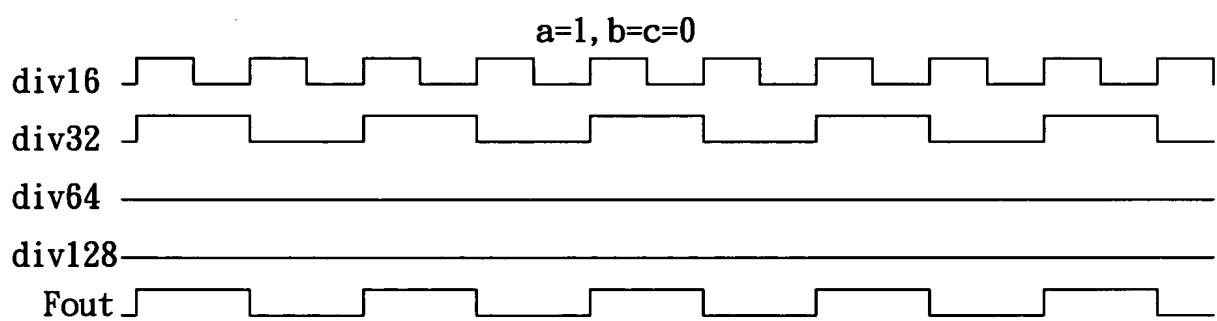


FIG. 3B

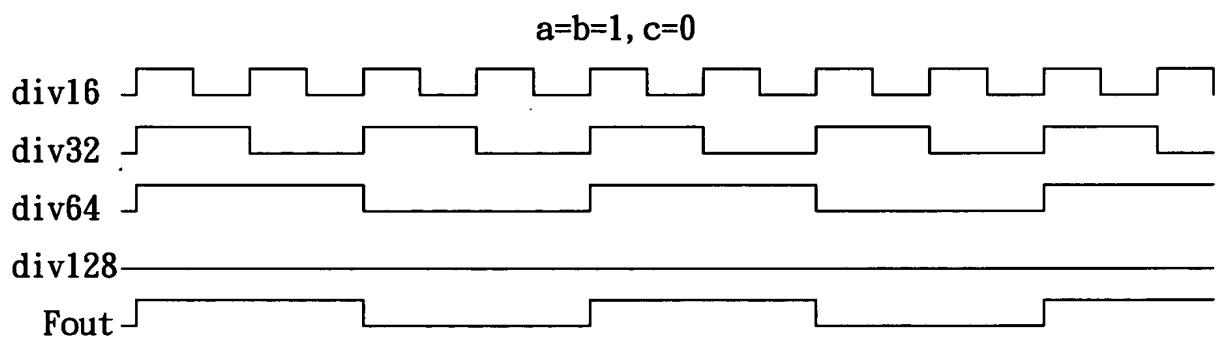


FIG. 3C

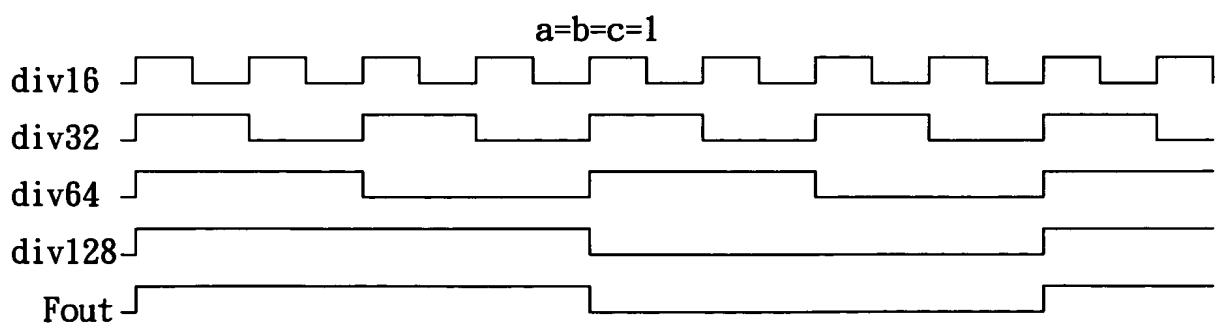


FIG. 3D

Truth Table

MC	a	b	c	output
0	0	0	0	div 16
1	0	0	0	div 17
0	1	0	0	div 32
1	1	0	0	div 33
0	1	1	0	div 64
1	1	1	0	div 65
0	1	1	1	div 128
1	1	1	1	div 129

FIG. 4